



Australian Government

FBPSUG2012 Chemically clean equipment

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to use chemical agents to clean in-line plant and equipment. It applies to cleaning of in-line plant and equipment, including evaporators, pans, heaters, filters and pipework.

The unit applies to individuals who work under supervision in the sugar milling industry.

All work must be carried out to comply with workplace procedures according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sugar milling (SUG)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for cleaning	1.1 Confirm chemical stocks are available to meet cleaning and sanitation requirements 1.2 Confirm services are available and ready for operation 1.3 Select, fit and use personal protective equipment according to workplace safety procedures 1.4 Check equipment to confirm readiness for use according to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operating specifications 1.5 Plan equipment shut down and take equipment off-line for cleaning according to operating procedures 1.6 Set the plant for the cleaning cycle
2. Operate and monitor the cleaning process	2.1 Undertake the cleaning process according to operating procedures 2.2 Monitor the cleaning process to confirm cleaning meets workplace requirements 2.3 Record cleaning data according to workplace requirements 2.4 Identify, rectify or report process non-conformance and equipment faults according to workplace procedures
3. Dispose of waste and return plant to operating condition	3.1 Flush and dispose of cleaning chemicals from plant according to workplace environmental procedures 3.2 Return plant to operational requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret workplace procedures and environmental care requirements relevant to job role
Navigate the world of work	Apply legislative requirements and workplace procedures to own role and responsibilities
Interact with others	Report operational and safety information in required format
Get the work done	Complete tasks in required sequence

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2012 Chemically clean equipment	FDFSUG212A Chemically clean equipment	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPSUG2012 Chemically clean equipment

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has chemically cleaned equipment in line with workplace contexts and demonstrated each of the following points at least once:

- selected, fitted and used personal protective equipment (PPE)
- completed steps required to prepare the plant for cleaning
- cleaned equipment according to cleaning process cycle and procedures
- carried out relevant checks and inspections to confirm effectiveness of cleaning, including completion of required records
- handled cleaning and sanitation agents safely
- returned the plant to operating order.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose and principles of cleaning in place (in-line), including the use and functions of caustic and acid solutions, and cleaning sequence and stages
- cleaning and sanitation requirements for work area, including different levels of cleaning requirements depending on the reason for cleaning
- methods used to render equipment safe to clean, including lock-out, tag-out and isolation procedures
- equipment settings required for cleaning and for operating
- inspection points for cleaning and sanitation
- consequences of contamination of process flows by cleaning solutions
- types of waste generated by both the production and the cleaning process, and related collection, treatment and disposal requirements
- environmental consequences of incorrect waste disposal procedures

- health and safety in the workplace requirements when chemically cleaning in-line plant and equipment:
 - appropriate signage of cleaning activities
 - safe handling and storage of cleaners and sanitisers
 - correct use of PPE.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a sugar milling workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE
 - equipment to be cleaned and related cleaning system
 - chemicals and/or automated chemical addition system
 - workplace information recording system
- specifications:
 - workplace procedures and related advice on equipment operation, including advice on safe work practices and environmental requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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